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                   Derwent Journal Of Synthetic Methods Reloaded
           Jul 27
  NEWS 14
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2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-(2-phenylethyl) - (9CI)

C33 H33 N3 O2 MF

Page 2

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

1-Propanaminium, 3-[bis[2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3Hxanthen-9-yl]benzoyl]amino]-N,N,N-trimethyl-, methyl sulfate (9CI) L2

C58 H65 N6 O4 . C H3 O4 S MF

> 1 CM

2 CM

Me-0-503-

REGISTRY COPYRIGHT 2000 ACS 4 ANSWERS

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(2-phenylethyl)- (9CI)

C34 H35 N3 O2 MF

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

REGISTRY COPYRIGHT 2000 ACS 4 ANSWERS L2 N-butyl-2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-y1]-(9CI)C29 H33 N3 O2 MF

ALL ANSWERS HAVE BEEN SCANNED

=> s l1 ful

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=> s 13

3 L3 T.4

=> d 14 ibib abs hitstr 1-3

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2000 ACS 1990:218769 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

112:218769 Basic rhodamine dyes, jet-printing inks containing

them, and their use in dyeing paper

INVENTOR(S):

Mayer, Udo; Oberlinner, Andreas

PATENT ASSIGNEE(S):

BASF A.-G., Fed. Rep. Ger. Eur. Pat. Appl., 6 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT INFORMATION	_	7 001	LICATION NO.	DATE
PATENT NO.	KIND DATE  A2 19891		1989-110567	19890610
EP 347697 EP 347697 EP 347697 R: AT, CH, DE 3821196 CA 1339276 AT 97153 US 4935059 FI 8903045 FI 91268 FI 91268 JP 02051563 PRIORITY APPLN. INFO	A3 19910 B1 19931 DE, FR, GB, A1 19900 A1 1997 E 1993 A 1990 A 1989 B 1994 C 1994 A2 1990	1227 .110 IT, LI, NL, S 1215 0812 CA 1115 0619 1224 0228 0610 0221 DE DE DE DE DE DE DE DE DE DE	E 1988-3821196 1989-601818 1989-110567 1989-366450 1989-3045 1989-159827 1988-3821196 1989-110567	19880623 19890605 19890610 19890615 19890621 19890623 19880623 19890610
		112.218769		

OTHER SOURCE(S):

MARPAT 112:218769

GΙ

- \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT \*
- Basic dyes I [A- = anion; L = C2-10 alkylene; R1-R3 = H, (un)substituted C1-10 alkyl or C5-7 cycloalkyl, or R1R2N = pyrrolidino, piperidino, morpholino, piperazino, N-(C1-4 alkyl) piperazino; m, n = 0, 1] are useful AΒ for dyeing paper materials or as colorants for jet-printing inks. Thus, II was heated with Me2N(CH2)3NH2 in the presence of P2O5 at 120.degree. for 6 h, producing I (L = CH2CH2CH2, R1 = R2 = Me, m = n = 0),

534 nm, which dyed paper a brilliant, fast red shade. .lambda.max

- RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation) (manuf. and quaternization of, as red dye for paper and jet-printing ΙT
- Benzamide, N-[3-(dimethylamino)propyl]-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-[2-[6-(ethylamino)-3-(ethylimino)-2,7-RN CN dimethyl-3H-xanthen-9-yl]benzoyl]- (9CI) (CA INDEX NAME)

- IT
  - 127193-48-0P RL: PREP (Preparation) (manuf. of, as dye for paper and jet-printing inks)
- 1-Propanaminium, 3-[bis[2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3Hxanthen-9-yl]benzoyl]amino]-N,N,N-trimethyl-, methyl sulfate (9CI) (CA RN CN INDEX NAME)

1 CM

CRN 127193-47-9 CMF C58 H65 N6 O4

2 CM

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2000 ACS 1986:610416 CAPLUS

ACCESSION NUMBER:

105:210416

DOCUMENT NUMBER: TITLE:

Rhodamine dyes

INVENTOR(S):

Mayer, Udo; Oberlinner, Andreas BASF A.-G., Fed. Rep. Ger. Ger. Offen., 12 pp.

PATENT ASSIGNEE(S):

SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

German

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT INFORMATION			TONETON NO	DATE
PATENT NO.	KIND	DATE	APPLICATION NO.	
DE 3425631 EP 167998 EP 167998	98 A2 98 A3	19860116 19860115 19880210 19901010	DE 1984-3425631 EP 1985-108323	19840712 19850705
EP 167998 B1 R: CH, DE, FR, GH US 4647675 A JP 61040363 A2 PRIORITY APPLN. INFO.:	3, IT, LI 19870303 19860226	US 1985-753783 JP 1985-152602 DE 1984-3425631	19850711 19850712 19840712	

GΙ

$$R^{1}$$
 $R^{2}$ 
 $R^{3}$ 
 $R^{3}$ 
 $R^{3}$ 
 $R^{3}$ 
 $R^{3}$ 
 $R^{3}$ 
 $R^{5}$ 
 $R^{5}$ 

Rhodamine compds. I [A-= anion; n=0-3; R, R1, R4=H, (un) substituted alkyl, cycloalkyl; R2 = H, (un) substituted alkyl, cycloalkyl, aryl, or AΒ NR1R2 = heterocyclic ring; R3 = H, C1-4 alkyl; R5 = (un)substituted

cycloalkyl, H, aryl, heteroaryl, or NR4R5 = heterocyclic ring; X = H, Cl,Br, C1-4 alkyl, C1-4 alkoxy, NO2] are useful for dyeing paper materials. alkyl, Thus, Rhodamine 575 was amidated with PhCH2NH2 with the aid of POC13, and treated with AcOH, forming I (A = AcO, n = 0, R = R1 = Et, R2 = R4 = X = H, R3 = Me, R5 = CH2Ph).

105292-23-7P 105292-24-8P 105292-25-9P 105292-26-0P 105292-27-1P 105292-28-2P IT 105292-29-3P 105292-30-6P 105292-31-7P 105292-32-8P 105292-33-9P 105292-34-0P 105292-35-1P 105292-36-2P 105292-37-3P 105292-38-4P 105292-39-5P 105292-40-8P 105292-41-9P 105292-45-3P 105292-46-4P 105292-47-5P 105292-48-6P 105292-49-7P

Ι

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manuf. of, as dye for paper)

Benzamide, N-ethyl-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-RNxanthen-9-yl]- (9CI) (CA INDEX NAME) CN

105292-24-8 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-CN N, N-dimethyl- (9CI) (CA INDEX NAME)

Benzamide, N, N-diethyl-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-RNxanthen-9-yl]- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c|c} \text{Et}_2N-C \\ \parallel \\ 0 \\ \text{Me} \\ \text{Et}-N \end{array} \qquad \begin{array}{c} \text{Me} \\ \text{NHEt} \end{array}$$

105292-26-0 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-propyl- (9CI) (CA INDEX NAME)

105292-27-1 CAPLUS

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(1-methylethyl)- (9CI) (CA INDEX NAME)

Benzamide, N-butyl-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-RN xanthen-9-yl]- (9CI) (CA INDEX NAME) CN

105292-29-3 CAPLUS

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(1-methylpropyl)- (9CI) (CA INDEX NAME)

RN

Benzamide, N-(1,4-dimethylpentyl)-2-[6-(ethylamino)-3-(ethylimino)-2,7-105292-30-6 CAPLUS dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME) CN

Benzamide, N-(1,5-dimethylhexyl)-2-[6-(ethylamino)-3-(ethylimino)-2,7-RN dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c} \text{Me} \\ \text{Me}_{2\text{CH}-\text{ (CH}_2)} \text{ 3-CH-NH-C} \\ \text{O} \\ \text{Me} \\ \text{Et-N} \end{array}$$

105292-32-8 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(2-ethylhexyl)- (9CI) (CA INDEX NAME)

105292-33-9 CAPLUS

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(2-phenylethyl)- (9CI) (CA INDEX NAME)

105292-34-0 CAPLUS RN

CN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-phenyl- (9CI) (CA INDEX NAME)

105292-35-1 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{MeO-CH}_2\text{-CH}_2\text{-NH-C} \\ \text{O} \\ \text{Me} \\ \text{Et-N} \end{array} \qquad \begin{array}{c} \text{Me} \\ \text{NHEt} \end{array}$$

105292-36-2 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(3-methoxypropyl)- (9CI) (CA INDEX NAME)

MeO- (CH<sub>2</sub>) 
$$_3$$
-NH-C

Me

Me

NHEt

Benzamide, N-(3-ethoxypropyl)-2-[6-(ethylamino)-3-(ethylimino)-2,7-RNdimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME) CN

105292-38-4 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-[3-[(2-ethylhexyl)oxy]propyl]- (9CI) (CA INDEX NAME)

Benzamide, N-[3-(dimethylamino)propyl]-2-[6-(ethylamino)-3-(ethylimino)-RN2,7-dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME) CN

$$Me_2N-(CH_2)_3-NH-C$$
 $O$ 
 $Me$ 
 $Et-N$ 
 $O$ 
 $Me$ 
 $NHEt$ 

105292-40-8 CAPLUS

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(2-hydroxypropyl)- (9CI) (CA INDEX NAME)

105292-41-9 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-methyl- (9CI) (CA INDEX NAME)

105292-45-3 CAPLUS

N-butyl-2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-y1]- (9CI) (CA INDEX NAME)

105292-46-4 CAPLUS

2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-(phenylmethyl) - (9CI) (CA INDEX NAME)

105292-47-5 CAPLUS

2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-(2-phenylethyl) - (9CI) (CA INDEX NAME)

105292-48-6 CAPLUS

N-butyl-2-[6-(diethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-y1]- (9CI) (CA INDEX NAME)

105292-49-7 CAPLUS

2-[6-(diethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

105292-50-0 CAPLUS

2-[6-(diethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-(2-phenylethyl) - (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Ph-CH_2-CH_2-NH-C\\ & \\ & \\ & \\ Et-N \end{array}$$

105314-09-8 CAPLUS

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-hexyl- (9CI) (CA INDEX NAME)

$$Me^{-(CH_2)}5^{-NH-C}$$
 $Me$ 
 $Et^{-N}$ 
 $NHEt$ 

105292-20-4P TΤ

RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. and acidification with acetic acid)

105292-20-4 CAPLUS RN

2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2000 ACS 1980:193099 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

Monitoring of phospholipid vesicle fusion by

fluorescence energy transfer between membrane-bound

dye labels

Vanderwerf, Paul; Ullman, Edwin F.

AUTHOR(S): CORPORATE SOURCE: Syva Res. Inst., Palo Alto, CA, 94304, USA Biochim. Biophys. Acta (1980), 596(2), 302-14

SOURCE:

CODEN: BBACAQ; ISSN: 0006-3002

Journal DOCUMENT TYPE:

A sensitive method which utilized the fluorescence energy transfer to assay Ca2+- or Mg2+-mediated fusion of phospholipid vesicles is reported. LANGUAGE: More than 85% quenching resulted when phosphatidylserine vesicles labeled with dansyl phosphatidylethanolamine (donor) were fused with vesicles labeled with rhodamine phosphatidylethanolamine (acceptor) in the

of 5 mM CaCl2 or 10 mM MgCl2. Higher concns. of divalent cations were presence required to obtain maximal quenching when phosphatidylserine was

partially

replaced with phosphatidylethanolamine or phosphatidylcholine. The rate of vesicle fusion was dependent on the concns. of both cation and vesicles. Max. quenching occurred within 5 min using phosphatidylserine vesicles and 5 mM Ca2+, but quenching was incomplete even after 20 h with 0.8-2 mM Ca2+. This probably reflects the heterogeneous size distribution

of these vesicles, since the extent of fusion was correlated with vesicle size. Binding of antibody to membrane-localized phenobarbital hapten effectively blocked Ca2+-mediated vesicle fusion. This effect was inhibited by preincubation of the antibody with phenobarbital. Leakage

tempocholine from intact vesicles induced by 5 mM Ca2+ occurred even when fusion was prevented by bound antibody, demonstrating that fusion is not of

necessary requirement for Ca2+-induced leakage.

73614-36-5 ΙT

а

(fluorescence quenching of, in phospholipid liposome fusion) RL: PROC (Process)

RN

Xanthylium, 3,6-bis(dimethylamino)-9-[2-[6-hydroxy-6-oxido-1,12-dioxo-9-[(1-oxohexadecyl)oxy]-5,7,11-trioxa-2-aza-6-phosphaheptacos-1-yl]-5isothiocyanatophenyl]-, inner salt (9CI) (CA INDEX NAME) CN

PAGE 1-B

= c == s

NMe2

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